

CLAIM AMENDMENTS

RECEIVED
CENTRAL FAX CENTER

OCT 27 2004

Claim Amendment Summary

Claims pending

- Before this Amendment: Claims 1-70.
- After this Amendment: Claims 25-36; 66-68.

Canceled or Withdrawn claims: 1-24; 37-65; 69, and 70.

Amended claims: none.

New claims: none.

Claims:

Claims 1-24 are CANCELED.

25. (ORIGINAL) A method facilitating protection of digital signals, the method comprising:

partitioning a digital signal into segments;

for one or more segments:

- calculating statistics of a segment that are representative of that segment;
- quantizing such statistics of a segment;

generating a marked signal approximately equivalent to a combination of the digital signal and the combination of the quantized statistics of the one or more segments.

421 West Riverside, Suite 500
Spokane, WA 99201
P: 509.324.9256
F: 509.323.8979
www.lee&hayes.com

lee & hayes

Serial No.: 09/843,279
Any Docket No.: MS1-792US
Preliminary Amendment

2

1018041639 G:\MS1-01792\MS1-792us.m01.prelim.doc

atty: Kasey C. Christie

1
2 26. (ORIGINAL) A method as recited in claim 25 further
3 comprising normalizing amplitude of a digital signal, wherein such signal is an
4 original, unmarked signal.

5
6 27. (ORIGINAL) A method as recited in claim 25 further
7 comprising transforming the signal.

8
9 28. (ORIGINAL) A method as recited in claim 25, wherein the
10 partitioning comprises pseudorandomly segmenting the signal.

11
12 29. (ORIGINAL) A method as recited in claim 25, wherein the
13 partitioning comprises pseudorandomly segmenting the signal, wherein such
14 segments are adjacent and non-contiguous.

15
16 30. (ORIGINAL) A method as recited in claim 25, wherein the
17 statistics of the calculating comprises one or more finite order moments of a
18 segment.

19
20 31. (ORIGINAL) A method as recited in claim 25 further
21 comprising determining a delta-sequence that is representative of the combination
22 of the quantized statistics of the one or more segments.

421 West Riverside, Suite 500
Spokane, WA 99201
P: 509.324-9266
F: 509.323-8979
www.leeandhayes.com
lee & hayes

1 **32. (ORIGINAL)** A method as recited in claim 25 further
2 comprising determining a pseudorandom delta-sequence that when combined with
3 the digital signal approximate a combination of the digital signal and the quantized
4 statistics of the one or more segments.

5
6 **33. (ORIGINAL)** A method as recited in claim 25, wherein the
7 generating comprises embedding a watermark via quantization index modulation
8 (QIM).

9
10 **34. (ORIGINAL)** A modulated signal generated in accordance
11 with the acts recited in claim 25.

12
13 **35. (ORIGINAL)** A computer-readable medium having computer-
14 executable instructions that, when executed by a computer, performs the method
15 as recited in claim 25.

16
17 **36. (ORIGINAL)** A computer comprising one or more computer-
18 readable media having computer-executable instructions that, when executed by
19 the computer, perform the method as recited in claim 25.

20
21 **Claims 37-65 are CANCELED.**
22
23
24
25

421 West Riverside, Suite 500
Spokane, WA 99201
P: 509.324-8256
F: 509.323-8979
www.lee&hayes.com
lee&hayes

1 66. A system for facilitating the protection of digital signals, the system
2 comprising:

3 a partitioner configured to segment a digital signal;
4 a segment-statistics calculator configured to calculate statistics of a segment
5 that are representative of that segment;
6 a segment quantizer configured to quantize such statistics of a segment
7 a signal marker configured to generate a marked signal approximately
8 equivalent to a combination of the digital signal and the combination of the
9 quantized statistics of the one or more segments.

10
11 67. A system as recited in claim 66, wherein the partitioner is further
12 configured to pseudorandomly segment the signal.

13
14 68. A system as recited in claim 66, wherein the partitioner is further
15 configured to pseudorandomly segment the signal, wherein such segments are
16 adjacent and non-contiguous.

17
18 Claims 69 and 70 are CANCELED.
19
20
21
22
23
24
25

421 West Riverside, Suite 500
Spokane, WA 99201
P: 509.324-9256
F: 509.323-8979
www.lee&hayes.com
lee & hayes